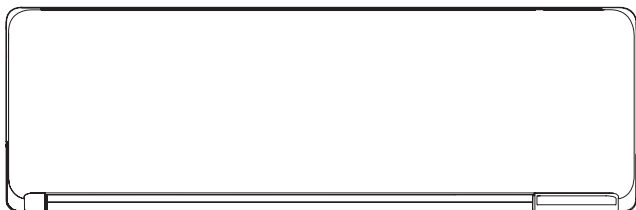


OPERATION MANUAL



OPERATION MANUAL
AIR CONDITIONER (Wall Mounted type)
Before using this product, read these instructions thoroughly
and keep this manual for future reference.

English

MODE D'EMPLOI
CLIMATISEUR (Type à montage mural)
Avant d'utiliser ce produit, veuillez lire attentivement ces
instructions. Conservez ce manuel pour référence future.

Français

MANUAL DE FUNCIONAMIENTO
ACONDICIONADOR DE AIRE (Tipo montado en pared)
Antes de utilizar el producto, lea estas instrucciones detenida-
mente y conserve este manual para consultarlo en el futuro.

Español

MODEL:(KP series)

Write down the model name.
(Refer to the rating label.)

Notez le nom du modèle.
(Consultez l'étiquette des spécifications.)

Escriba el nombre del modelo.
(Consulte la etiqueta de calificación).



PART No. 9387602548-01

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1. SAFETY PRECAUTIONS

To prevent personal injury or property damage, read this section carefully before you use this product, and be sure to comply with the following safety precautions.

Incorrect operation due to failure to follow the instructions may cause harm or damage, the seriousness of which is classified as follows:



WARNING

This mark warns of death or serious injury.



CAUTION

This mark warns of injury or damage to property.



This mark denotes an action that is PROHIBITED.



This mark denotes an action that is COMPULSORY.

Explanation of symbols displayed on the indoor unit or outdoor unit.



Refrigerant
Safety Group
A2L

WARNING

This symbol shows that this product uses a low burning velocity material. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire.



CAUTION

This symbol shows that the operation manual should be read carefully.



CAUTION

This symbol shows that a service personnel should be handling this equipment with reference to the installation manual.



CAUTION

This symbol shows that information is available such as the operation manual or installation manual.



WARNING



- When installing this product to an unventilated area, pay attention to prevent fire and explosion caused by the stagnated gas in case of refrigerant leakage. (For products which contain more than 4.05 lbs (1.836 kg) refrigerant.)
- This product contains no user-serviceable parts. Always consult authorized service personnel for repairing, installation, and relocation of this product. Improper installation or handling will cause leakage, electric shock, or fire.
- In the event of a malfunction such as burning smell, immediately stop operation of the air conditioner, and disconnect all the power supply by turning off the electrical breaker or disconnecting the power plug. Then consult authorized service personnel.
- Take care not to damage the power supply cable. If it is damaged, it should be replaced only by authorized service personnel in order to avoid a hazard.
- If a refrigerant leakage is suspected, all naked flames shall be removed or extinguished, and consult authorized service personnel.
- In the event of a thunder storm or any prior sign of a lightning strike, turn off the air conditioner via the remote controller, and refrain from touching the product or the power source to prevent any electrical hazards.
- This product shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- This product shall be stored in a well-ventilated area.
- Be aware that refrigerants may not contain an odour.
- This product shall be stored so as to prevent mechanical damage from occurring.
- Disposing of the product shall be done properly, in compliance with national or regional regulations.
- During transportation or relocation of the indoor unit, pipes shall be covered with the wall hook bracket for protection.
Do not move this product by holding the indoor unit pipes. (The stress applied to the pipe joints may cause the flammable gas to leak during operation).

! WARNING

- This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of this product by a person responsible for their safety. Children should be supervised to ensure that they do not play with this product.
- Dispose of the packing materials safely. Tear and dispose of the plastic packing bags so that children cannot play with them. There is danger of suffocation if children play with the original plastic bags.



- Do not start or stop the operation of this product by inserting or pulling out the power plug, or by turning on or off the circuit breaker.
- Do not use flammable gases near this product.
- Do not expose yourself directly to the cooling airflow for many hours.
- Do not insert your fingers or any other objects into the outlet port or intake grille.
- Do not operate with wet hands.
- Do not use means to accelerate the defrosting process or to clean this product, other than those instructed in this manual.
- Do not pierce or burn.

! CAUTION



- Provide occasional ventilation during use.
- Before cleaning this product, be sure to turn it off and disconnect all the power supply.
- Always operate this product with air filters installed.
- Ensure that any electronic equipment is at least 1 m (40 in) away from this product.
- Disconnect all the power supply when not using this product for extended periods.
- After a long period of use, ensure to get the mounting of the indoor unit checked to prevent this product from falling down.
- The airflow direction and the room temperature should be carefully considered when you use this product in a room with infants, children, elderly or sick persons.
- Keep the surroundings of the outdoor unit clean and tidy, and do not place items around it. Any objects blocking or entering from the outlet ports may cause product malfunction.



- Do not direct the airflow at fireplaces or heating apparatus.
- Do not block or cover the intake grille and the outlet port.
- Do not apply any heavy pressure to radiator fins.
- Do not climb on, place objects on, or hang objects from this product.
- Do not place any other electrical products or household belongings under this product. Dripping condensation from this product might get them wet, and may cause damage or malfunction of your property.
- Do not expose this product directly to water.
- Do not use this product for preservation of food, plants, animals, precision equipment, art work, or other objects. This may cause quality deterioration of those items.

! CAUTION

- Do not expose animals or plants to the direct airflow.
- Do not drink the drainage from the air conditioner.
- Do not pull the power supply cable.
- Do not touch the aluminum fins of heat exchanger built-in this product to avoid personal injury when you maintain the unit.
- Do not stand on unstable steps when operating or cleaning this product. It may overturn and can cause injury.

This product contains fluorinated greenhouse gases.

2. PREPARATION

! WARNING



- Take care to prevent infants and young children from accidentally swallowing the batteries.

! CAUTION



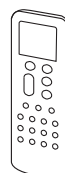
- If leaking battery fluid comes in contact with your skin, eyes, or mouth, immediately rinse with plenty of clean water, and consult your physician.
- Exhausted batteries must be removed immediately, and be disposed according to the local laws and regulations of your region.



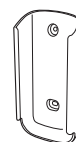
- Do not attempt to recharge dry batteries.
- Do not use dry batteries that has been recharged.

Indoor unit accessories

Check that the following accessories are included.



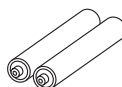
Remote controller



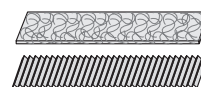
Remote controller holder



Self-tapping screws



Batteries



Air cleaning filters

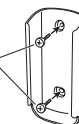


Filter holders

How to use the remote controller holder

1

Self-tapping screws



2

Insert



3

Slide up



3. NAME OF PARTS

CAUTION

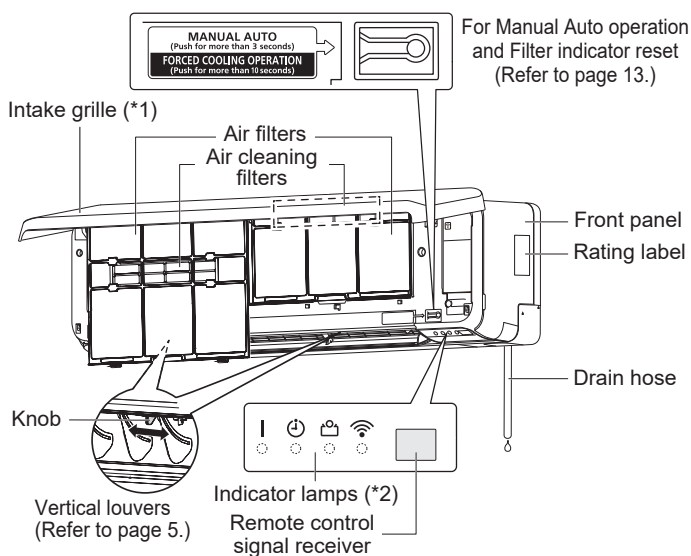
For appropriate signal transmission between the remote controller and the indoor unit, keep the signal receiver away from the following items:

- Direct sunlight or other strong lights
- Flat-panel television screen

In rooms with instantaneous fluorescent lights, such as inverter type ones, the signal may not be transmitted properly. In such a case, consult the store of purchase.

3.1. Indoor unit

☎ : The instruction is relating to the wireless LAN control (optional).



*1: Before starting operation, make sure that the intake grille is closed completely. Incomplete closing may affect the proper function or performance of the product.

*2: Indicator lamps light in the following conditions.

	Name	Color	Operation or condition
	Operation	Green	Normal operation
⌚	Timer	Orange	Timer operation
🏠	Economy	Green	Economy operation Min. Heat operation
☎	WLAN	Orange	Wireless LAN control is active. (optional) ☎

3.2. Remote controller

When you use the optional remote controller, the appearance and the operation procedure may differ.

For details, refer to the operation manual of each remote controller.

- * : The setting must be done while the setting screen is displayed for each function.
- | : The button is controllable only when the air conditioner is operating.
- ☎ : The instruction is relating to the wireless LAN control.

Signal transmitter

Aim at the signal receiver of the indoor unit properly.

- Operating range is approximately 22 ft (7 m).
- [▲] will appear when the signal is transmitted.
- The indoor unit will emit a beep when it receive the signal properly. If there is no beep, press the button again.

Remote controller display

In this section, all the possible indicators are displayed for description. In actual operation, the display is linked with the button operation, and only shows the necessary indicators for each setting.

The backlight turns on when the button is pressed and turns off after 10 seconds.

For Basic operations Refer to page 5.

⏻/⏹	Starts or stops the air conditioner operation.	
MODE	Changes the operation mode.	*
TEMP. (up/down arrows)	Adjusts the setting temperature or setting value. (*1)	*

*1: This button glows in dark places.

For Timer operations Refer to page 6.

⌚ ON	Sets the On timer
⌚ OFF	Sets the Off timer
⌚ SLEEP	Sets the Sleep timer
⌚ CANCEL	Cancels the timer setting.
⬆ SELECT	Adjusts the value of the timer or clock settings.
⬆ SELECT	Adjusts the value of the timer or clock settings.
⌚ CLOCK ADJUST	Starts the clock setting. Refer to "How to press the button inside the hole" when pressing this button.

For Wireless LAN control Refer to page 10.

☎ WLAN	Starts the Wireless LAN setting. Refer to "How to press the button inside the hole" when pressing this button.	☎
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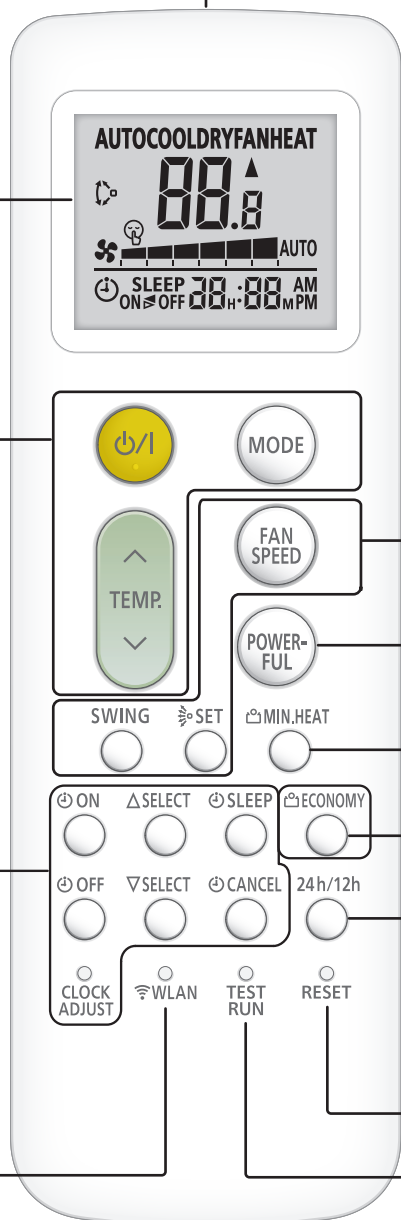
CAUTION



- To prevent malfunction or damage of the remote controller:
 - Place remote controller at where will not be exposed to direct sunlight or excessive heat.
 - Remove batteries if the product is not going to be used for an extended period.
- Obstacles such as a curtain or wall between the remote controller and the indoor unit may affect the appropriate signal transmission.



- Do not apply strong shocks to the remote controller.
- Do not pour water on the remote controller.



For Airflow settings Refer to page 5.



Controls the fan speed.



Sets the automatic Swing operation.



Controls the up/down airflow direction.



For Powerful operation Refer to page 7.



Activates or deactivates the Powerful operation.



For Min. (Minimum) Heat operation..... Refer to page 7.



Activates the Min. Heat operation.

For Energy saving operations Refer to page 6.



Activates or deactivates the Economy operation.



To change the time indicator



Changes the time indication from 12-hour to 24-hour.

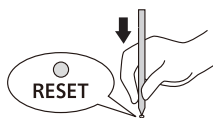
After replacing batteries Refer to page 5.



Resets the settings of the remote controller.

How to press the button inside the hole

Press this button as shown in the following figure. Use the tip of a ballpoint pen or other small object.



Do not press this button in normal use.

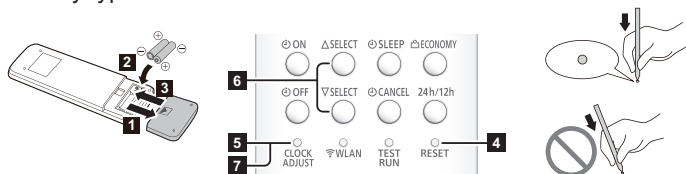
It starts the test run (for use by authorized service personnel only).

NOTE:

- If the test run starts unintentionally, press to quit the test run.

3.3. Inserting batteries

Battery type: R03/LR03/AAA x 2



- 1 to 3. Put batteries as shown in the figure above.
4. Press RESET as shown in the figure above.
5. Press CLOCK ADJUST as shown in the figure above.
6. Press Δ SELECT ∇ SELECT to set the clock.
Press the buttons to change the clock by a minute.
Press and hold the buttons to change the clock by 10 minutes.
7. Press CLOCK ADJUST as shown in the figure above.

NOTES:

- Use the specified type of batteries only.
- Do not mix different types or new and used batteries together.
- Batteries can be used for about 1 year in ordinary use.
- If the remote control range noticeably shortens, replace the batteries and press RESET as shown in the figure above.

4. BASIC OPERATIONS

3 steps to start operation

1. Press \odot/I to start or stop the operation.
2. Press MODE to select the operation mode.
The operation mode changes as follows.

3. Press TEMP. (\wedge \vee) to set the desired temperature.
The temperature changes by 1°F (0.5°C) increments.

Temperature setting range	
Auto/Cooling/Dry	64-88°F (18.0-30.0°C)
Heating	60-88°F (16.0-30.0°C)

NOTES:

- In the Cooling or Dry mode,
 - set the temperature lower than the current room temperature.
- In the Heating mode,
 - set the temperature higher than the current room temperature.
 - at the beginning of the operation, the indoor unit fan rotates at a very low speed for 3-5 minutes.
 - the Automatic defrosting operation overrides the Heating operation when necessary.
- In the Fan mode, temperature control is not available.

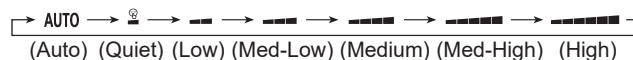
Temperature unit switching

1. Press \odot/I until only the clock is displayed.
2. Press and hold TEMP. (\wedge) for more than 5 seconds.
The current temperature unit will be displayed. (Factory setting: °F)
3. Press TEMP. (\wedge \vee) to switch the temperature unit. (°F \leftrightarrow °C)
4. Press \odot/I to finish the setting.
If you do not press the button for 30 seconds, the displayed temperature unit is set.

5. AIRFLOW SETTINGS

5.1. Fan speed setting

- Press FAN SPEED to control the fan speed.
The fan speed changes as follows.



When **AUTO** is selected, the fan speed depends on the operating condition.

NOTE:

- In the Dry mode, the fan speed is fixed to **AUTO**.

5.2. Airflow direction setting

For details of the airflow ranges, refer to "Airflow direction range".

Up/down airflow direction setting

- Press SET to adjust the up/down airflow direction.

Left/right airflow direction setting



CAUTION

- Before you adjust the left/right airflow direction, make sure that the horizontal louver has been stopped completely.

- Adjust two knobs by hand.

Swing operation setting

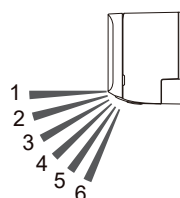
- Press SWING to start/stop the Swing operation.

NOTE:

- The Swing operation may stop temporarily when the indoor unit fan is rotating at very low speed or is stopped.

Airflow direction range

Up/down airflow direction



Change by SET	1 \leftrightarrow 2 \leftrightarrow 3 \leftrightarrow 4 \leftrightarrow 5 \leftrightarrow 6
Swing operation by SWING	
Cooling, Dry	1 \leftrightarrow 4
Heating	3 \leftrightarrow 6
Fan (*1)	1 \leftrightarrow 4 or 3 \leftrightarrow 6


*1: The Swing operation range depends on the airflow direction set before the Swing operation.

NOTES:

- Do not adjust the horizontal louvers by hand.
- In the Auto or Heating mode, the airflow direction stay position 1 for a while from the start of the operation.
- In the Cooling or Dry mode, the downward airflow can change to the upper as follows. This feature is to prevent condensation from dripping and damaging your property.
 Condition: Position 4-6 keeps for 30 minutes
 Airflow adjusted to: Position 3
- When using the mobile app, the up/down airflow can be selected from 4 positions.







6. TIMER OPERATIONS

NOTE:

- When [] indicator on the indoor unit blinks, set the timer again. This blinking shows that the internal clock goes wrong due to an interruption of the power supply. (Refer to page 9.)

6.1. On timer or Off timer

The On timer starts the operation at your desired time.
The Off timer stops the operation at your desired time.



- Press  **ON** or  **OFF**.
 - Press  **SELECT** to set on time or off time.
Pressing the button: The time will change by +5/-5 minutes.
Pressing and holding the button: The time will change by +10/-10 minutes.
- To deactivate the On timer or Off timer, press  **CANCEL** while  **ON** or  **OFF** is shown on the remote controller display. The indicator will disappear.

6.2. Program timer

The Program timer operates as the combination of the On timer and Off timer.

- Set On timer and Off timer. (Refer to "6.1. On timer or Off timer").
The timer setting changes to the Program timer automatically.

The timer whose setting time is closer to the current time works first.
The order of the timer operation is displayed as follows:

Timer	Indicator on the remote controller display
On→Off timer	
Off→On timer	

NOTES:

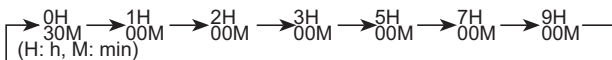
- You can set the Program timer only within a span of 24 hours.
- If you set the Sleep timer after setting the Program timer, the Program timer is canceled.



6.3. Sleep timer

The Sleep timer supports your comfortable sleep by moderating the air conditioner operation gradually.

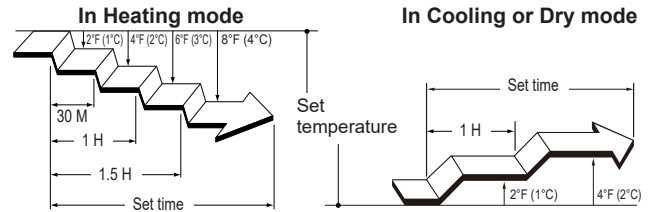
- Press  **SLEEP**.

Each time you press the button, the time changes as follows:



- To deactivate the Sleep timer, press  **CANCEL** while  **SLEEP** is shown on the remote controller display. The indicator disappears.

During the Sleep timer operation, the setting temperature changes as the following figure.



After the set time has elapsed, the air conditioner operation turns off.


NOTE:


- If you set the On timer or Off timer after setting the Sleep timer, the Sleep timer is canceled.

7. ENERGY SAVING OPERATION

7.1. Economy operation

It saves more electricity than other operation modes by changing the set temperature to a moderate setting.

Press  **ECONOMY** to activate/deactivate the Economy operation.

[] indicator on the indoor unit will turn on.

Operation mode	Room temperature
Cooling/Dry	Few degrees higher than the set temperature
Heating	Few degrees lower than the set temperature

NOTES:







- In the Cooling, Heating, or Dry mode, the maximum output of this operation is approximately 70% of usual operation.
- This operation cannot be performed during the temperature monitoring by the Auto mode.
- In the multi-split type air conditioner, the Economy operation mode is only available for the set indoor unit.

7.2. Fan control for energy saving



In the Cooling operation, when the room temperature reaches the set temperature, the indoor unit fan rotates intermittently to save power. (This function is deactivated at the time of purchase.)



To change the setting, use the following steps;

- Press  until only the clock is displayed.
- Press and hold  for more than 5 seconds.
The current Fan Control status () is displayed.
- Press **TEMP.** ( ) to switch between activated (**ON**) or deactivated (**OFF**).
- Press  to send the setting to the indoor unit.
The display will return to the original screen.


NOTE:

- If you do not press any buttons for 30 seconds after  is displayed,  will turn off. In this case, repeat the setting from step 2.

8. OTHER OPERATIONS

8.1. Powerful operation

In the Powerful operation, the air conditioner will operate at maximum power and strong airflow to cool down or warm up the room quickly.

- Press  to activate/deactivate the Powerful operation.
- When activated, the indoor unit will emit 2 short beeps.
When deactivated, the indoor unit will emit 1 short beep.

The Powerful operation will be turned off automatically in the following situations:



- The Powerful operation runs for a certain amount of time and the room temperature reaches the set temperature in the Cooling, Dry, or Heating mode.
- 20 minutes after the Powerful operation has started.



NOTES:

- The airflow direction and the fan speed are controlled automatically.
- The Powerful operation cannot be performed simultaneously with Economy operation.
- The Powerful operation overrides the following operations. If the following operations are set, they will start after the Powerful operation finishes.
 - Energy Saving program
- If the wired remote controller (optional) is connected, this function is restricted.


8.2. Min. (Minimum) Heat operation

Min. Heat operation maintains the room temperature at 50°F (10°C) so as to prevent the room temperature to drop too low.

- Press  MIN. HEAT to activate the Min. Heat operation.
- The indoor unit will emit 1 short beep and  indicator on the indoor unit will turn on.

- Press  to turn off the air conditioner.
-  indicator will turn off.

NOTES:

- During the Min. Heat operation, only  SET is valid.
- When the room temperature is warm enough, this operation will not perform.
- If the wired remote controller (optional) is connected, this function is restricted.
- In the multi-split type air conditioner, the room temperature will rise higher than 50°F (10°C) if the other indoor units operate at Heating mode. When using the Minimum heat operation, we recommend that setting all indoor units at Minimum heat operation.

9. SETTINGS ON INSTALLATION

9.1. Remote controller custom code setting



By setting custom code of indoor unit and remote controller, you can specify the air conditioner which the remote controller controls.

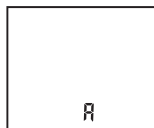
When two or more air conditioners are in the room and you wish to operate them separately, set the custom code (4 selections possible).


NOTE:

- If custom codes is different between the indoor unit and the remote controller, the indoor unit cannot receive a signal from the remote controller.


How to set the remote controller custom code

- Press  until only the clock is displayed.
- Press and hold  for more than 5 seconds.
The current custom code will be displayed (initially set to A).



- Press TEMP () to change the custom code between A(a)↔B(b)↔C(c)↔D(d).

NOTE

- Match the custom code on the display to the air conditioner custom code.
- Press  again.
The custom code will be set.
The display will return to the clock display.

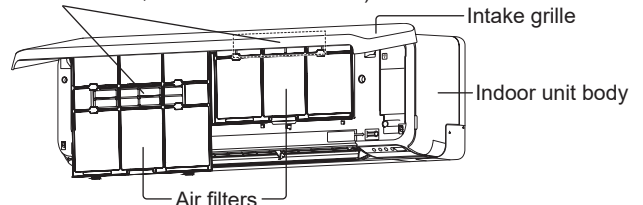
- To change the air conditioner custom code, contact an authorized service personnel (initially set to A).
- If you do not press any buttons for 30 seconds after the custom code is displayed, the display returns to the clock display. In this case, repeat the setting from step 2.

10. CLEANING AND CARE

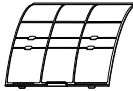


CAUTION

- Before cleaning this product, be sure to turn it off and disconnect all the power supply.
- Before starting operation, make sure that the intake grille has been shut completely. Incomplete closing of the intake grille might have an effect on the proper working or performance of the air conditioner.
- If the filter cleaning involves high-place work, consult the authorized service personnel.
- Do not touch the aluminum fins of heat exchanger built-in the indoor unit to avoid personal injury when you maintain the unit.
- Do not expose the indoor unit to liquid insecticides or hair sprays.
- Do not stand on slippery, uneven or unstable surfaces when you maintain the unit.

Air cleaning filters
(Apple-catechin filter, Ion deodorization filter)



Frequencies at which the components are to be maintained

Name of parts	Frequency	
	Cleaning	Replacing
Indoor unit body, intake grille	When you notice	—
Air filter 	Every 2 weeks	—
Air cleaning filter (*1)		
Apple-catechin filter (UTR-FA16)  (White)	—	Every 3 months
Ion deodorization filter (UTR-FA16-2)  (Light blue)	Every 3 months	Every 3 years

*1: The air cleaning filters are sold separately. When you replace them, contact the store of purchase.

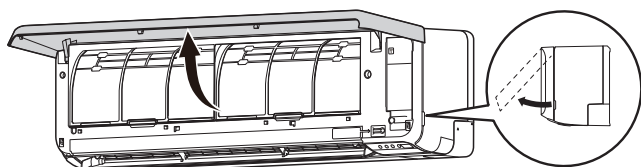
Cleaning indoor unit body

NOTES:

- Do not use water hotter than 104°F (40°C).
 - Do not use scouring cleanser, volatile solvents such as benzene or thinner.
1. Wipe the indoor unit body gently with a soft cloth moisten with warm water.
 2. Wipe the indoor unit body gently with a dry and soft cloth.

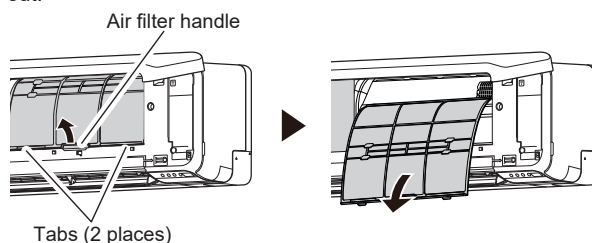
Cleaning air filter

1. Open the intake grille until it snaps.



2. Remove the air filters.

Lift up the air filters' handle, disconnect the two lower tabs, and pull out.



3. Remove the dust in either of the following ways.

- Cleaning with vacuum cleaner.
- Washing with mild detergent and warm water. After washing, dry the air filters thoroughly in shade.

4. Replace the air filters.

Align the sides of the air filter with the panel, and push in fully. Make sure the two lower tabs are returned to their holes in the indoor unit properly.

5. Close the intake grille.

Press 4 places on the intake grille to close it completely.



NOTE:

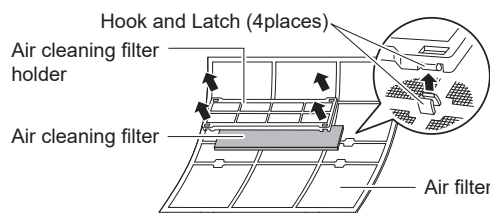
- If dirt accumulates on the air filter, airflow will be reduced, operating efficiency will lower, and the noise will increase.

Replacing air cleaning filters

NOTES:

- For the frequencies at which the air cleaning filters are to be replaced, refer to ["Frequencies at which the components are to be maintained"] in "CLEANING AND CARE".
 - Use an air cleaning filter as soon as possible after opening the package. The air cleaning effect decreases when the filters are left in the opened package.
1. Remove the air filters from indoor unit body. Refer to steps 1 and 2 of "Cleaning air filter".

2. Remove the air cleaning filter holder and air cleaning filter from the air filter. Remove the hooks of the air cleaning filter holder from the latches of the air filter.



3. Place a new or cleaned air cleaning filter on top of the air filter.
4. Engage the latches of the air filter with the hooks of the air cleaning filter holder.

NOTE:

- Make sure that the air cleaning filter is within the air cleaning filter holder.

5. Attach the air filter to the indoor unit body and close the intake grille. Refer to steps 4 ~ 5 of "Cleaning air filter".

Cleaning Ion deodorization filter

NOTES:

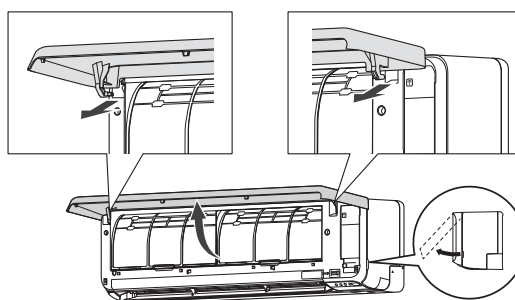
- Do not wash the Apple-catechin filter (white).
- For how to detach/attach the Ion deodorization filter, refer to "Replacing air cleaning filters".

1. Wash it with water or lukewarm water. For heavy soiling, use diluent neutral detergent. Do not ream or rub, otherwise the deodorizing effect may decrease.
2. Rinse the Ion deodorization filter with water flow.
3. Dry the Ion deodorization filter in shade.

Removing and installing intake grille

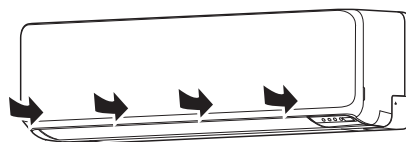
■ Removing intake grille

1. Open the intake grille until it snaps.
2. Pull the mounting shafts while keeping the intake grille in a horizontal position.



■ Installing intake grille

1. While holding the intake grille horizontal, set the left and right mounting shafts into the pillow blocks at the top of the front panel. Insert the shaft until it snaps to latch each shaft properly.
2. Close the intake grille.
3. Press 4 places on the intake grille to close it completely.



After extended non-use of the unit

If you have shut down the indoor unit for 1 month or more, perform the Fan mode operation for half a day to dry the internal parts thoroughly before the normal operation.

Additional inspection

After long period of use, accumulated dust inside the indoor unit may reduce the performance even if you have maintained the unit properly.


In such a case, a product inspection is recommended.

For more information, consult authorized service personnel.

Filter indicator reset (Special setting)

This function can be used if set correctly during installation. Consult authorized service personnel in order to use this function.

✎ Clean the air filter when the indicator lamp show the following:

Indicator lamp	Blinking pattern
	Blinks 3 times, at intervals of 21 seconds

After cleaning, reset the filter indicator by pushing on the indoor unit for 2 seconds or less.



11. GENERAL INFORMATION

■ Heating performance

This air conditioner operates on the heat-pump principle, absorbing heat from air outdoors and transferring that heat to the indoor unit. As a result, the operating performance is reduced as outdoor air temperature drops.

If you feel that the heating performance is insufficient, we recommend you to use this air conditioner in conjunction with other kinds of heating appliance.

■ Automatic defrosting operation

When outdoor temperature is very low with high humidity, frost may form on the outdoor unit during the heating operation, and it could reduce the operating performance of the product.

For frost protection, an automatic defrost function is equipped in this air conditioner.

If frost forms, the air conditioner will temporarily stop, and defrost circuit will operate briefly (maximum of 15 minutes.)

[] indicator on the indoor unit blinks during this operation.

If frost forms on the outdoor unit after the Heating operation, the outdoor unit will stop automatically after it operates for a few minutes. Then the Automatic defrosting operation starts.

■ Auto-restart function

In event of power interruption such as a blackout, the air conditioner stops once. But it restarts automatically and performs previous operation when the power supply is resumed.

If any power interruption occurs after the timer is set, counting down of the timer will be reset.

After the power supply is resumed, [] indicator on the indoor unit blinks to notify you that there has been a timer fault. In such a case, reset the clock and timer settings.

■ Malfunctions caused by other electrical devices

Use of other electrical appliances such as an electric shaver or nearby use of a wireless radio transmitter may cause the malfunction of the air conditioner.

If you encounter such a malfunction, turn off the circuit breaker once. Then turn it on again, and resume operation by using the remote controller.

■ Operable conditions of temperature and humidity

Permissible ranges of temperature and humidity are as follows:

Indoor temperature	Cooling/Dry	[°F (°C)]	64 to 90 (18 to 32)
	Heating	[°F (°C)]	60 to 86 (16 to 30)
Indoor humidity			[%] 80 or less (*1)

*1: If the air conditioner is used continuously for many hours, water may condense on the surface and drip.

- If the unit is operated under the conditions except the permissible temperature range, the air conditioner operation may stop because of the automatic protection circuit working.
- Depending on the operating conditions, the heat exchanger may freeze, causing water leakage or other malfunction (in the Cooling or Dry mode).


■ Other information

- Do not use the air conditioner for any purpose other than room cooling/dry, room heating or fan.
- For the permissible ranges of temperature and humidity for the outdoor unit, refer to the outdoor unit installation manual.

■ Emergency heat (Special setting)

An auxiliary heater can be used instead of the outdoor unit if the auxiliary heater is connected and the function is set correctly during installation.

Consult authorized service personnel to use this function.

To activate/deactivate this function, Press  on the indoor unit for 2 seconds or less during the Heating operation.

During the Emergency heat operation, [] indicator lamp will blink (3 seconds on, 1 second off).

12. OPTIONAL PARTS

12.1. Wired remote controller

The optional wired remote controller can be used.

You can use wired and wireless remote controller together.

However, some functions of the wireless remote controller are restricted. If you set the restricted functions, beeping sound will be heard, [], [], [] and [] indicator on the indoor unit will blink.

<Restricted functions for wireless remote controller>

When using together with wired remote controller (2-wire)

- Powerful operation
- Min. Heat operation

You can use wired remote controller and wireless LAN control together.

However, some operations from the mobile app are restricted.

Multiple remote controller

You can connect two wired remote controllers to one air conditioner.

Either remote controller can control the air conditioner.

However, the timer functions cannot be used by the secondary unit.

Group control

One remote controller can control up to 16 air conditioners. All of the air conditioners will be operated with the same settings.

You cannot use group control and wireless LAN control together.

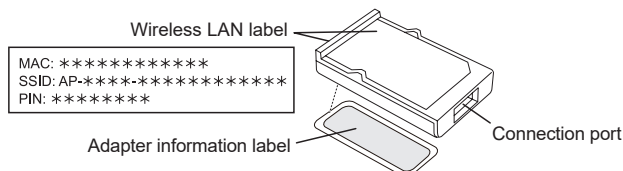
12.2. Wireless LAN control

To use the wireless LAN control, the WLAN adapter and mobile app is necessary.

Consult authorized service personnel in order to install the WLAN adapter.

For how to operate the mobile app, refer to the operation manual of the mobile app.

After installation by authorized service personnel, retrieve the adapter information label and stick it in this manual.



Information on WLAN adapter

Paste Adapter information label here

Wireless LAN-compatible standard	IEEE 802.11 b/g/n
Frequency bands	2.4 GHz (in the U.S. or Canada: 1 ch to 11 ch) (in the other regions: 1 ch to 13 ch)
Maximum radio-frequency power	40 mW
Wireless LAN security	Open WEP WPA (PSK) WPA2_Personal (PSK) WPS for same-LAN Registration

"AIRSTAGE Mobile" is a trademark of FUJITSU GENERAL LIMITED.

Android and Google Play are registered trademarks of Google LLC.

App Store is a service mark of Apple Inc., registered in the U.S. and other countries.

IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.

Setting to use wireless LAN control

Step 1. Application software installation

1. Open "Google Play" or "App Store" depending on the type of your smartphone or tablet PC.
2. Search for "AIRSTAGE Mobile".
3. Install the application software (mobile app) following the instructions on your screen.

Step 2. User registration

1. Open the installed mobile app.
2. Register the user (with either a smartphone or tablet PC) by following the instructions in the create an account section of the mobile app.

Step 3. Air conditioner registration (pairing of WLAN adapter)

NOTES:

- Before starting this setting, reconnect the power supply of the air conditioner and wait for 60 seconds or more.
- Check that the smartphone or tablet PC is linked to the access point you are connecting the air conditioner. The setting will not work if it is not connected to the same access point.
- To control 2 or more air conditioners with the same smartphone or tablet PC, repeat the setup of the chosen mode.

Register the air conditioner by following the instructions on the mobile app.

This operation manual describes only the setting procedure of the remote controller.

When the registration is completed, [] indicator on the indoor unit will turn on.

For reference

<Manual connection>

Setting procedure of the remote controller

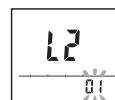
NOTE:

- If you do not press any buttons of the remote controller for 60 seconds, the remote controller display will return to the original display.

1. Press 2 times as shown in page 4.
L2 will be displayed on the remote controller display.



2. Select using TEMP. (^ v) on the remote controller.



3. Press .

The indoor unit enters the Manual Connection mode and [] indicator on the indoor unit will blink.

NOTE:

- If the registration is not be finished in several minutes, the Manual Connection mode is canceled and [] indicator turns off. In this case, repeat the remote controller setting.

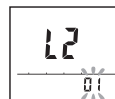
<Easy Connection mode>

Setting procedure of the remote controller:

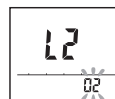
NOTE:

- If you do not press any buttons of the remote controller for 60 seconds, the remote controller display will return to the original display.

1. Press 2 times as shown in page 4.
L2 will be displayed on the remote controller display.



2. Select using TEMP. (^ v) on the remote controller.



3. Press .

The indoor unit enters the Easy Connection mode and [] indicator on the indoor unit will blink (on/off = 1 s/1 s).

When the WLAN device find a connectable access point, the blinking will become slowly (on/off = 2 s/0.5 s).



NOTE:

- If the connection to the access point is not be finished in several minutes, the Easy Connection mode is canceled and [] turns off. In this case, repeat the remote controller setting.

Temporary deactivation of wireless LAN

NOTE:



- If you do not press any buttons of the remote controller for 60 seconds, the remote controller display will return to the original display.

- Press [ WLAN] as shown in page 4.
 will be displayed on the remote controller display.



- Select **OFF** using TEMP (^ v) on the remote controller. (*1)



- Press .
[] indicator on the indoor unit will turn off.

*1: If you want to activate wireless LAN again, select **ON** in step 2.

Initialization (reset)

Initialize (reset) this product in the following situations:

- Changing the wireless router
- Disposing this product
- Transferring this product to a third party



Unregister the air conditioner

Unregister the air conditioner by using the mobile app. (Refer to the operation manual of the mobile app for details.)



Initialization of the WLAN device

NOTE:

- If you do not press any buttons of the remote controller for 60 seconds, the remote controller display will return to the original display.

- Press [ WLAN] 3 times as shown in page 4.
 will be displayed on the remote controller display.



- Press and hold  for more than 5 seconds.
[] indicator on the indoor unit will turn off after blinking fast.



To continue use

If you or third party wishes to continue use of the product, follow the procedures in "Air conditioner registration (pairing of WLAN device)" to reconnect to a different access point.

NOTE:

- Wireless LAN setup is not possible if the previous owner did not unregister or initialize this product. In this case, contact authorized service personnel.

Firmware update



CAUTION

Do not pull out the power plug nor turn off the circuit breaker during the firmware update of the indoor unit or WLAN device. It may cause malfunction.

For WLAN device

The firmware of the WLAN device may be updated automatically.

During the updating, you cannot operate the air conditioner from the mobile app. It will take for a maximum of 5 minutes.

For indoor unit


The firmware of the indoor unit may be updated. You can set the schedule of the updating or update the firmware manually from the mobile app. For details, refer to the operation manual for the mobile app.


During the updating, the indicator lamps flash and the air conditioner stops the operation. (Refer to "3 steps to start operation".) It will take for a maximum of 30 minutes.

12.3. Multi-split type air conditioner

This indoor unit can be connected to a multi-split type outdoor unit. The multi-split type air conditioner allows multiple indoor units to be operated in multiple locations. The indoor units may be operated simultaneously, in accordance with their respective output.

Simultaneous Use of Multiple Units

- When using a multi-split type air conditioner, the multiple indoor units can be operated simultaneously, but when 2 or more indoor units of the same group are operated simultaneously, the heating and cooling efficiency will be less than when a single indoor unit is used alone. Accordingly, when you wish to use more than 1 indoor unit for cooling at the same time, the use should be concentrated at night and other times when less output is required. In the same way, when multiple units are used simultaneously for heating, it is recommended that they be used in conjunction with other auxiliary space heaters, as required.
- Seasonal and outdoor temperature conditions, the structure of the rooms and the number of persons present may also result in differences of operating efficiency. We recommend that you try various operating patterns in order to confirm the level of heating and cooling output provided by your units, and use the units in the way that best matches your family's lifestyle.
- If you discover that 1 or more units delivers a low level of cooling or heating during simultaneous operation, we recommend that you stop simultaneous operation of the multiple units.
- Operation cannot be done in the following different operating modes. If the indoor unit is instructed to do an operating mode that it cannot perform, [] indicator on the indoor unit will blink (1 second on, 1 second off) and the unit will go into the standby mode.
Heating mode and Cooling mode (or Dry mode)
Heating mode and Fan mode
- Operation can be done in the following different operating modes.
Cooling mode and Dry mode
Cooling mode and Fan mode
Dry mode and Fan mode
- The operating mode (Heating mode or Cooling (Dry) mode) of the outdoor unit will be determined by the operating mode of the indoor unit that was operated first. If the indoor unit was started in the Fan mode, the operating mode of the outdoor unit will not be determined.

For example, if indoor unit (A) was started in the Fan mode and then indoor unit (B) was then operated in the Heating mode, indoor unit (A) would temporarily start operation in the Fan mode but when indoor unit (B) started operating in the Heating mode, [] indicator for indoor unit (A) would begin to blink (1 second on, 1 second off) and it would go into standby mode. Indoor unit (B) would continue to operate in Heating mode.

13. TROUBLESHOOTING



WARNING



In the following events, immediately stop operation of the air conditioner, and disconnect all the power supply by turning off the electrical breaker or disconnecting the power plug. Then consult your dealer or authorized service personnel.

As long as the unit is connected to the power supply, it is not insulated from the power supply even if the unit is turned off.

- Unit smells of something burning or emits smoke
- Water leaks from the unit

Does not operate at all.

- ☐ Has there been a power outage?
In this case, the unit restarts automatically after the power supply is resumed. (Refer to **page 9**.)
- ☐ Has the circuit breaker been turned off?
⇒ Turn on the circuit breaker.
- ☐ Has a fuse blown out or the circuit breaker been tripped?
⇒ Replace the fuse or reset the circuit breaker.
- ☐ Is the timer operating?
⇒ To check or deactivate the timer setting, refer to **page 6**.
- ☐ <When using the wireless LAN control> Is the WLAN device in a firmware update?
During the firmware update of the WLAN device, you cannot operate the air conditioner from the mobile app. Operate from the remote controller or wait until the update is complete (for a maximum of 5 minutes).
- ☐ <When using the wireless LAN control> Is the indoor unit in a firmware update?
During the firmware update of the indoor unit, the air conditioner stops the operation. Wait until the update is complete. (for a maximum of 30 minutes).

Poor cooling or heating performance.

- ☐ Is the unit operating under the conditions except the permissible temperature range?
In this case, the air conditioner may stop because of the automatic protection circuit working.
- ☐ Is the air filter dirty?
⇒ Clean the air filter. (Refer to **page 8**.)
- ☐ Is the intake grille or outlet port of indoor unit blocked?
⇒ Remove the obstructions.
- ☐ Is the room temperature adjusted appropriately?
⇒ To change the temperature setting, refer to **page 5**.
- ☐ Is a window or door left opened?
⇒ Close the window or the door.
- ☐ Is the fan speed set to Quiet?
⇒ To change the fan speed, refer to **page 5**.
- ☐ <In the Cooling mode> Is direct or strong sunlight shining into the room?
⇒ Close the curtains.
- ☐ <In the Cooling mode> Are there other heating apparatus or computers operating, or too many people in the room?
⇒ Turn the heating apparatus or computers off, or set the temperature lower. (Refer to **page 5**.)

Airflow is weak or stops.

- ☐ Is the fan speed set to Quiet?
⇒ To change the fan speed, refer to **page 5**.
- ☐ Has the Fan Control for Energy Saving set? In this case, the indoor unit fan may stop temporarily while the Cooling operation.
⇒ To cancel the Fan control for energy saving, refer to **page 6**.
- ☐ <In the Heating mode> Have you just started the operation?
In this case, the fan rotates at very low speed temporarily to warm up the internal parts of the unit.

- ☐ <In the Heating mode> Is the room temperature higher than the set temperature?
In this case, the outdoor unit stops and the indoor unit fan rotates at very low speed.
- ☐ <In the Heating mode> Is [] indicator blinking?
In this case, the Automatic defrosting operation is working. The indoor unit stops for maximum of 15 minutes. (Refer to **page 9**.)
- ☐ <In the Dry mode> The indoor unit operates at low fan speed to adjust the room humidity, and may stop from time to time.
- ☐ <In the Auto mode> While the monitoring operation, the fan rotates at very low speed.
- ☐ <In multi-split connection> Are multiple units set in different operation mode as shown below?
In this case, the units set afterward will stop and [] indicator will blink.
• Heating mode and other mode

Noise is heard.

- ☐ Is the unit operating, or immediate after stopping operation?
In this case, refrigerant flowing sound may be heard. It may be particularly noticeable for 2-3 minutes after starting operation.
- ☐ Do you hear a slight squeaking sound during the operation?
This sound is produced by the minute expansion and contraction of the front panel caused by temperature change.
- ☐ <In the Heating mode> Do you hear a sizzling sound?
This sound is produced by the Automatic defrosting operation. (Refer to **page 9**.)

Smell coming from the unit.

- ☐ The air conditioner may absorb various smells generated from interior textile, furniture, or cigarette smoke. These smells may be emitted during the operation.

Mist or steam is emitted from the unit.

- ☐ <In the Cooling or Dry mode> A thin mist may be generated by condensation formed with sudden cooling process.
- ☐ <In the Heating mode> Is [] indicator on the indoor unit blinking?
In this case, steam may rise from the outdoor unit because of the Automatic defrosting operation. (Refer to **page 9**.)

Outdoor unit emits water.

- ☐ <In the Heating mode> The outdoor unit may emit water generated by the Automatic defrosting operation. (Refer to **page 9**.)

The unit operates differently from the remote controller setting.

- ☐ Are the batteries in the remote controller exhausted?
⇒ Replace the batteries.

Operation is delayed after restart.

- ☐ Has the power supply turned from Off to On suddenly?
In this case, the compressor will not operate for about 3 minutes to prevent a blowout of the fuse.

Immediately stop operation and turn off the electrical breaker in following cases. Then consult authorized service personnel.

- The problem persists even if you perform these checks or diagnostics.
- On the indoor unit, [] and [] blink while [] is blinking fast.

NOTE:

- For any troubleshooting related to the wireless LAN control, refer to the mobile app installed in your smartphone.

State of indicator lamps

☎ : The instruction is relating to the wireless LAN control (optional).

Lighting pattern: ○ Off, ● On, ● Blinking, — Any state

State	Causes and solutions	See page
	Automatic defrosting operation ⇒ Wait until finishing the defrosting (maximum of 15 minutes).	9
	Filter indicator ⇒ Clean the air filter and reset the filter sign.	9
	Error code display ⇒ Consult authorized service personnel.	-
	Timer setting error because of Auto restart ⇒ Reset the clock and timer settings.	9
	Test run operation (for authorized personnel only) ⇒ Press (TEST RUN) to quit the test run.	4
	The power to the access point is not on. ⇒ Check that the power to the access point is on.	-
	There is a possibility that the WLAN device is not properly connected to the access point. ⇒ Disconnect the power supply to the air conditioner (via breaker or plug), and then re-connect.	10
	The firmware of the WLAN device is being updated. You cannot operate the air conditioner from the mobile app. Operate from the remote controller or wait until the update is complete (for a maximum of 5 minutes).	11
	During the air conditioner registration (pairing of WLAN device)	10
	The indoor unit is preparing the firmware update. You cannot operate the air conditioner. Wait until the update is complete (for a maximum of 30 minutes).	11
	<While the operation is stopped> The indoor unit is in the firmware update. You cannot operate the air conditioner. Wait until the update is complete (for a maximum of 30 minutes).	11
	<While the operation is stopped> The firmware update of the indoor unit is complete. The settings from the wireless remote controller are initialized. Control the air conditioner from the wireless remote controller to resend the settings.	11

	<While the operation is stopped> If you cannot operate the air conditioner, the malfunction may occur on the firmware of the indoor unit. Consult authorized service personnel.	-
	Restricted function	9
	(In the multi-split connection) Standby mode ⇒ Check the set operation mode of the indoor units.	11

Manual Auto operation and Filter indicator reset

You can operate the air conditioner with on the indoor unit.

Status	Length of pressing down	Mode or operation
In operation	More than 3 seconds	Stop
Stopping	2 seconds or less	Filter indicator reset
	More than 3 seconds and less than 10 seconds	Auto (*1)
	More than 10 seconds (Only for servicing.) (*2)	Forced cooling
In Heating operation	2 seconds or less (Special setting) (*3)	Emergency heat

*1: In the multi-split connection, the operation mode follows the other indoor units.

*2: To stop the forced cooling, press this button or (TEST RUN) on the remote controller.

*3: Refer to "Emergency heat (page 9)" for details.

Service check

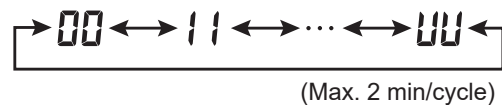
If [] and [] blink while [] is blinking fast on the indoor unit, check the error code. The error code is 2-digit numbers or characters.

- Press and hold the for more than 5 seconds.




The remote controller will enter to the Service check mode and "—" will be shown.

- Press TEMP. (^) to change the shown error code. By pressing and holding, the error code changes by every 0.5 second. The indoor unit emits 1 short beep each time the error code changes. When the corresponding error code is shown, the indoor unit emits multiple beeps and all the indicator lamps on the indoor unit blink.



The characters used for error code					
A	A	C	C	F	F
J	J	P	P	U	U

To finish the Service check mode, press .

The remote controller will return to the original display.

Tell the error code to authorized service personnel when consulting them.

If the indoor unit emits multiple beeps at "00", no error is detected.